

# Appendix A

## List of Acronyms

<b>ANS</b>	Aquatic Nuisance Species
<b>AS</b>	American Samoa
<b>ASSWCD</b>	American Samoa Soil and Water Conservation District
<b>ATRIS</b>	Along-Track Reef Imaging System
<b>AVIRIS</b>	Airborne Visible Infrared Imaging Spectrometer
<b>AWT</b>	Advanced Wastewater Treatment
<b>BRT</b>	Biological Review Team
<b>CAP</b>	Community Action Plan
<b>CDHC</b>	Coral Disease and Health Consortium
<b>CEAP</b>	Conservation Effects Assessment Project
<b>CFMP</b>	Community Fisheries Management Program
<b>CITES</b>	Convention on International Trade of Endangered Species of Wild Fauna and Flora
<b>CNMI</b>	Commonwealth of the Northern Mariana Islands
<b>CO2</b>	Carbon dioxide
<b>CoRIS</b>	Coral Reef Information System
<b>CRCA</b>	Coral Reef Conservation Act
<b>CRAG</b>	Coral Reef Advisory Group (American Samoa)
<b>CREMP</b>	Coral Reef Evaluation and Monitoring Program
<b>CRES</b>	Coral Reef Ecosystems Studies
<b>DMWR</b>	Department of Marine and Wildlife Resources (American Samoa)
<b>DNER</b>	Department of Natural and Environmental Resources
<b>DoD</b>	U.S. Department of Defense
<b>DOI</b>	U.S. Department of the Interior
<b>DOJ</b>	U.S. Department of Justice
<b>DOS</b>	U.S. Department of State
<b>EAR</b>	Electronic Acoustic Recorders
<b>ECA</b>	Enewatak Conservation Area (Republic of the Marshall Islands)
<b>EEZ</b>	Exclusive Economic Zone
<b>ENC</b>	Electronic Navigational Chart
<b>EO</b>	Executive Order
<b>EPA</b>	U.S. Environmental Protection Agency
<b>EQIP</b>	Environmental Quality Incentives Program
<b>ER</b>	Emergency Restoration
<b>ESA</b>	Endangered Species Act

<b>FAS</b>	Freely Associated States (Republic of Palau, Federated States of Micronesia, Republic of the Marshall Islands)
<b>FDEP</b>	Florida Department of Environmental Protection
<b>FGBNMS</b>	Flower Garden Banks National Marine Sanctuary
<b>FISH</b>	Fisheries Improved for Sustainable Harvest
<b>FKNMS</b>	Florida Keys National Marine Sanctuary
<b>FRRP</b>	Florida Reef Resilience Program
<b>FSM</b>	Federated States of Micronesia
<b>FWC</b>	Florida Fish & Wildlife Conservation Commission
<b>GAFC</b>	Great Annual Fish Count
<b>GBR</b>	Great Barrier Reef
<b>GI</b>	General Investigation
<b>GIS</b>	Geographic Information System
<b>GPS</b>	Global Positioning System
<b>HEA</b>	Habitat Equivalency Analysis
<b>HGM</b>	Hydrogeomorphic
<b>HMT</b>	Hybrid Mapping Tool
<b>IOC</b>	Intergovernmental Oceanographic Commission
<b>ICRI</b>	International Coral Reef Initiative
<b>INRMP</b>	Integrated Natural Resource Management Plan
<b>IOTWS</b>	Indian Ocean Tsunami Warning System
<b>LAS</b>	Local Action Strategy
<b>LCC</b>	Large capacity cesspools
<b>LSI</b>	Lee Stocking Island
<b>LTER</b>	Long-Term Ecological Research
<b>MA</b>	Marianas Archipelago
<b>MACNA</b>	Marine Aquarium Conference of North America
<b>MASNA</b>	Marine Aquarium Society of North America
<b>MCBH</b>	Marine Corps Base Hawai'i
<b>MBRS</b>	Mesoamerican Barrier Reef System
<b>MHI</b>	Main Hawaiian Islands
<b>MICCI</b>	Maritime Industry and Coastal Construction Impacts
<b>MIO</b>	Marine Information Object
<b>MMS</b>	Minerals Management Service

<b>MODIS</b>	Moderate Resolution Imaging Spectroradiometer
<b>MPA</b>	Marine Protected Area
<b>NASA</b>	National Aeronautics and Space Administration
<b>NC</b>	New Caledonia
<b>NCRI</b>	National Coral Reef Institute
<b>NDZ</b>	No-discharge Zone
<b>NEPA</b>	National Environmental Policy Act
<b>NGO</b>	Non-governmental Organization
<b>NHP</b>	National Historic Park
<b>NOAA</b>	National Oceanic and Atmospheric Administration
<b>NP</b>	National Park
<b>NPS</b>	National Park Service
<b>NRCS</b>	Natural Resources Conservation Service
<b>NRDA</b>	Natural Resource Damage Assessment
<b>NSF</b>	National Science Foundation
<b>NSTA</b>	National Science Teachers Association
<b>NWHI</b>	Northwestern Hawaiian Islands
<b>OIA</b>	Office of Insular Affairs
<b>PARC</b>	Palmyra Atoll Research Consortium
<b>PIANC</b>	Permanent International Association of the Navigation Congress
<b>PIMPAC</b>	Pacific Islands Marine Protected Area Community
<b>PRASA</b>	Puerto Rico Aqueduct and Sewer Authority
<b>PRDA</b>	Puerto Rico Department of Agriculture
<b>PRDNER</b>	Puerto Rico Department of Natural and Environmental Resources
<b>PRIA</b>	Pacific Remote Islands Areas
<b>PRIWG</b>	Pacific Region Interagency Working Group
<b>PRTC</b>	Puerto Rico Tourism Company
<b>RAMP</b>	Reef Assessment and Monitoring Program
<b>RMI</b>	Republic of the Marshall Islands
<b>RNA</b>	Research Natural Area
<b>ROV</b>	Remotely Operated Vehicle
<b>RSMAS</b>	Rosenstiel School of Marine and Atmospheric Science (University of Miami)
<b>SeaWiFS</b>	Sea-viewing Wide Field-of-View Sensor (NASA)
<b>SEFCRI</b>	Southeast Florida Coral Reef Initiative
<b>SEFSC</b>	Southeast Fisheries Science Center
<b>SEW</b>	Special Emphasis Watershed
<b>SFCN</b>	South Florida/Caribbean Inventory and Monitoring Network
<b>SIMOR</b>	Sub-committee for Integrated Management of Ocean Resources
<b>SocMon</b>	Global Socioeconomic Monitoring Initiative

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<b>SUCCESS</b>	Sustainable Coastal Communities and Ecosystems
<b>TER</b>	Tortugas Ecological Reserve
<b>UNESCO</b>	United Nations Educational, Scientific and Cultural Organization
<b>USACE</b>	U.S. Army Corps of Engineers
<b>USAID</b>	U.S. Agency for International Development
<b>USCG</b>	U.S. Coast Guard
<b>USCRTF</b>	U.S. Coral Reef Task Force
<b>USDA</b>	U.S. Department of Agriculture
<b>USGS</b>	U.S. Geological Survey
<b>USFWS</b>	U.S. Fish and Wildlife Service
<b>USVI</b>	U.S. Virgin Islands
<b>UV</b>	Ultraviolet
<b>VINE</b>	Virgin Islands Network of Environmental Educators
<b>WWF</b>	World Wildlife Fund

# Appendix B

## Federal Expenditures for U.S. Coral Reef Task Force Conservation Activities (2004-2006)

This table presents estimates of federal agency funding directly related to coral reef conservation activities for FY 2004-2006, by agency. Figures in the table include funding directly related to major categories of coral reef conservation activities defined by the USCRTF in the *National Action Strategy*. In general, estimates do not include funding for activities indirectly related to coral reefs and funding used to fulfill basic mission functions of member agencies. Federal agency representatives provided funding estimates to the USCRTF for use in this report.

Agency	2004	2005	2006
Estimated Funding (\$ Millions)			
DOC <sup>a</sup>	56.96	46.16	42.11
DOI <sup>b</sup>	14.06	13.48	13.52
EPA	1.14	1.28	1.05
DOJ <sup>c</sup>	--	--	--
USCG (DHS) <sup>d</sup>	13.43	15.07	12.20
DOT <sup>e</sup>	--	--	--
DOS	1.58	1.55	1.55
USAID	19.69	16.30	13.19
DoD <sup>f</sup>	--	--	--
NSF	15.22	7.0	11.05
NASA <sup>g</sup>	1.26	1.20	0.80
<b>Subtotal</b>	<b>123.34</b>	<b>102.04</b>	<b>95.47</b>
USDA <sup>h</sup>	43.06	101.16	84.95
<b>Total</b>	<b>166.40</b>	<b>203.2</b>	<b>180.42</b>

- a** DOC budget figures reflect funding for NOAA's Coral Reef Conservation Program and other NOAA programs directly related to coral reef conservation activities.
- b** For DOI, these figures may represent multi-purpose activities or programs directly or indirectly benefiting coral reef conservation, and as a result the amounts shown may be larger than the amounts expended solely for the benefit of coral reefs. It is currently not practical to break the expenditures down further to show only the coral reef-related portion.
- c** The DOJ engages in actions in this area as part of the normal course of its work, but does not specifically allocate funds for coral reef habitats.
- d** The USCG does not have any explicit line items in its budget for coral reef activities. Figures in this table represent funds expended by various USCG components in support of coral reef protection. Normally, the USCG support involves law enforcement efforts and response to marine pollution incidents.
- e** U.S. Department of Transportation (DOT) Federal Highway Funding does not directly fund coral reef conservation activities; however, specific road projects funded through this program are required to have water quality protection measures in areas where it is a possible threat.
- f** The DoD does not have explicit Congressional authorization line item funding in its budget for coral reefs activities. However, as part of mission related activities, DoD funds projects and programs to conserve and protect coral reefs in proximity to DoD installations and activities.
- g** The National Aeronautics and Space Administration (NASA) funds research projects which are selected based on a peer-reviewed, competitive search process. The scientific community competes for research funding through NASA Research Announcements. There is no budget line specific to coral reef research within the agency's annual budget, but NASA Research Announcements generally include opportunities to fund strategic research on various coral reef topics.
- h** USDA programs and activities are not authorized for the sole purpose of providing direct beneficial impacts to coral reef ecosystems. The budget numbers represent spending for specific conservation programs that have impacts on water quality in the seven coral reef jurisdictions. These programs provide benefits to aquatic ecosystems through nonpoint source, nutrient, and sediment reduction from land-based sources. Activities take place in watersheds that outlet into estuaries linked to coral reef ecosystems or into waters where coral reefs are directly located. The FY 2005 figure includes the Emergency Watershed Program (EWP) funding to address hurricane damage.

## Federal Agency Funding Directly Related to Coral Reef Conservation by Goal Area (2004-2006)

This table presents estimates of federal agency funding directly related to coral reef conservation activities for FY 2004-2006. The data is organized by the major goal or coral reef conservation activity areas defined by the USCRTF in the National Action Strategy. Agency funding estimates are shown under each goal or activity area. In general, estimates do not include funding for activities indirectly related to coral reefs and funding used to fulfill basic mission functions of member agencies. Funding estimates were provided by federal agency representatives to the USCRTF for use in this report. As all agencies do not track expenditures by the following 13 categories, they are not represented in this table and, therefore, total expenditures are much lower than shown in the previous table.

GOAL	ESTIMATED FUNDING (\$ MILLIONS)		
	2004	2005	2006
1. Map All U.S. Coral Reefs			
DOC <sup>a</sup>	1.88	2.14	2.16
DOI <sup>b</sup>	0.53	0.27	0.27
NASA <sup>d</sup>	0.10	0.10	0.10
<b>Subtotal</b>	<b>2.51</b>	<b>2.51</b>	<b>2.53</b>
2. Assess and Monitor Reef Health			
DOC <sup>a</sup>	7.81	6.94	8.17
DOI <sup>b</sup>	2.77	3.34	3.46
EPA	0.82	0.75	0.77
NASA <sup>d</sup>	0.15	0.10	0.10
<b>Subtotal</b>	<b>11.55</b>	<b>11.13</b>	<b>12.5</b>
3. Conduct Strategic Research			
DOC <sup>a</sup>	15.26	9.77	7.16
DOI <sup>b</sup>	4.97	3.90	3.96
EPA	0.15	0.50	0.22
NASA <sup>d</sup>	0.81	0.80	0.40
NSF	13.76	6.48	10.32
<b>Subtotal</b>	<b>34.95</b>	<b>21.44</b>	<b>22.05</b>
4. Understand Social and Economic Factors			
DOC <sup>a</sup>	1.27	0.21	0.32
DOI <sup>b</sup>	0.04	0.01	0.01
<b>Subtotal</b>	<b>1.31</b>	<b>0.22</b>	<b>0.33</b>
5. Improve Use of Marine Protected Areas			
DOC <sup>a</sup>	12.59	4.53	4.38
DOI <sup>b</sup>	2.75	2.99	2.70
<b>Subtotal</b>	<b>15.34</b>	<b>7.52</b>	<b>7.08</b>

GOAL	ESTIMATED FUNDING (\$ MILLIONS)		
	2004	2005	2006
6. Reduce Impacts of Fishing and Other Extractive Uses			
DOC <sup>a</sup>	5.38	2.27	2.33
DOI <sup>b</sup>	0.57	0.37	0.37
USCG <sup>c</sup>	6.53	6.69	6.08
<b>Subtotal</b>	<b>12.48</b>	<b>9.78</b>	<b>8.78</b>
7. Reduce Impacts of Coastal Uses			
DOC <sup>a</sup>	1.04	1.63	1.27
DOI <sup>b</sup>	0.32	0.60	0.52
EPA	0.20	0	0
USCG <sup>c</sup>	6.53	6.69	6.08
<b>Subtotal</b>	<b>7.91</b>	<b>8.92</b>	<b>7.87</b>
8. Reduce Pollution			
DOC <sup>a</sup>	4.05	3.43	1.17
DOI <sup>b</sup>	0.34	0.19	0.28
USDA <sup>e</sup>	43.06	101.16	84.95
EPA	0.12	0	0.63
USCG <sup>c</sup>	0.35	1.67	N/A
<b>Subtotal</b>	<b>47.92</b>	<b>106.45</b>	<b>67.46</b>
9. Restore Damaged Reefs			
DOC <sup>a</sup>	0.94	1.11	1.07
DOI <sup>b</sup>	0.18	0.27	0.41
<b>Subtotal</b>	<b>1.12</b>	<b>1.38</b>	<b>1.48</b>
10. Improve Education and Outreach			
DOC <sup>a</sup>	1.49	1.40	1.51
DOI <sup>b</sup>	0.45	0.30	0.29
EPA	0.03	0.03	0
USCG <sup>c</sup>	0.02	0.02	0.03
NASA <sup>d</sup>	0.20	0.20	0.20
NSF	1.46	0.52	0.73
<b>Subtotal</b>	<b>3.65</b>	<b>2.47</b>	<b>2.76</b>
11. Reduce Threats to International Coral Reefs			
DOC <sup>a</sup>	0.88	0.65	0.68
DOI <sup>b</sup>	0.96	1.11	1.11
DOS	1.58	1.55	1.55
<b>Subtotal</b>	<b>3.42</b>	<b>3.31</b>	<b>3.34</b>

GOAL	ESTIMATED FUNDING (\$ MILLIONS)		
	2004	2005	2006
12. Reduce Impacts From International Trade			
DOC <sup>a</sup>	0.29	0.09	0.05
DOI <sup>b</sup>	---	---	---
<b>Subtotal</b>	<b>0.29</b>	<b>0.09</b>	<b>0.05</b>
13. Improve Coordination and Accountability			
DOC <sup>a</sup>	1.15	3.89	4.22
DOI <sup>b</sup>	0.18	0.14	0.16
<b>Subtotal</b>	<b>1.33</b>	<b>4.03</b>	<b>4.38</b>
14. Other			
DOC <sup>a</sup>	2.93 <sup>f</sup>	7.65 <sup>f</sup>	7.62 <sup>f</sup>
<b>Subtotal</b>	<b>2.93</b>	<b>7.65</b>	<b>7.62</b>
<b>TOTAL <sup>g</sup></b>	<b>146.71</b>	<b>186.9</b>	<b>167.21</b>

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- a** DOC budget figures reflect funding for NOAA's Coral Reef Conservation Program and other NOAA programs directly related to coral reef conservation activities.
- b** These figures may represent multi-purpose activities or programs directly or indirectly benefiting coral reef conservation, and as a result the amounts shown may be larger than the amounts expended solely for the benefit of coral reefs. It is currently not practical to break the expenditures down further to show only the coral reef-related portion.
- c** The USCG does not have any explicit line items in its budget for coral reef activities. Figures in this table represent funds expended by various USCG components in support of coral reef protection. Normally, USCG support involves law enforcement efforts and response to marine pollution incidents.
- d** The National Aeronautics and Space Administration (NASA) funds research projects which are selected based on a peer-reviewed, competitive search process. The scientific community competes for research funding through NASA Research Announcements. There is no budget line specific to coral reef research within the agency's annual budget, but NASA Research Announcements generally include opportunities to fund strategic research on various coral reef topics.
- e** USDA programs and activities are not authorized for the sole purpose of providing direct beneficial impacts to coral reef ecosystems. The above budget numbers represent spending for specific conservation programs that have impacts on water quality in the seven coral reef jurisdictions. These programs provide benefits to aquatic ecosystems through nonpoint source, nutrient, and sediment reduction from land-based sources. Activities take place in watersheds that outlet into estuaries linked to coral reef ecosystems or into waters where coral reefs are directly located.
- f** Funding includes overarching management grants and capacity building initiatives.
- g** Total funding does not include USAID funds, which are not distributed by Goal.

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Stephen H. Smith, Navy civilian marine ecologist

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Jim Maragos, U.S. Fish & Wildlife Service

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NOAA Center for Coastal Monitoring and Assessment Biogeography Branch

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Carolina, Anchors Away! funded project

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Papahānaumokuākea Marine National Monument

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Heleci Ramírez

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left photo: Andy David  
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